

ABSTRACT

Method and device for secure wireless transmission
5 of information from a sender to a receiver. A sending
device is arranged for obtaining a message, a sender
identity and a receiver identity and includes encryption
means for encrypting the message to be transmitted. A
transmission channel is established from the sending
10 device to a receiving device for transmitting the
encrypted information to the receiving device. A secure
note is used for defining the receiving device. In the
receiving device, there is arranged decryption means for
decrypting the information and display means for pre-
15 senting the message to the receiver. Optionally, the
receipt of the message is verified to the sender. Prefer-
ably, the message is encrypted in the sending device
by a symmetric key and decrypted by the receiving device
by the same key. The symmetric key is added to the
20 message after encryption with the symmetric key and the
symmetric key is encrypted by a public key belonging to
the receiver, whereupon the already encrypted symmetric
key is encrypted by a private key belonging to the
sender. In the receiving device, the symmetric key is
25 decrypted by the public key of the sender in the
receiving device and by the private key of the receiver,
whereupon the symmetric key is used for decrypting the
message. The sender and the receiver identifies them-
selves to the sending device and the receiving device by
30 verification means. Preferably, a random seed for gene-
rating encryption key is obtained by the verification
means during the identification step and/or the message
step. Preferably, the sending device is an Anoto pen.